

EXAMPLE A

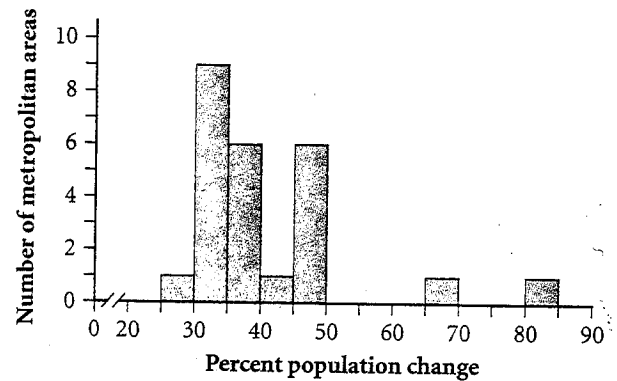
Both Graph A and Graph B were constructed from the data set in the table.

**The 25 Fastest-Growing Metropolitan Areas
in the United States (1990–2000)**

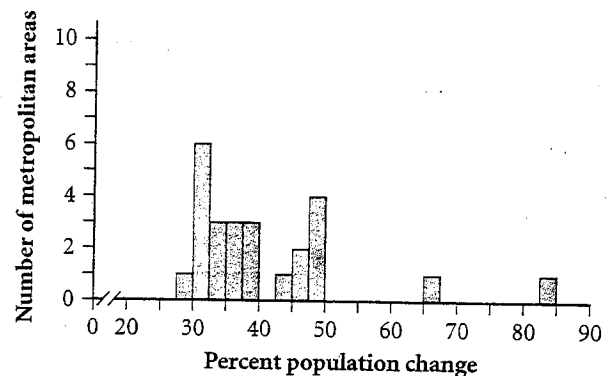
| Metropolitan area | 1990 Population | 2000 Population | Percent Population change |
|----------------------|--------------------|--------------------|---------------------------------|
| Las Vegas, NV | 852,737 | 1,563,282 | 83.3 |
| Naples, FL | 152,099 | 251,377 | 65.3 |
| Yuma, AZ | 106,895 | 160,026 | 49.7 |
| McAllen, TX | 383,545 | 569,463 | 48.5 |
| Austin, TX | 846,227 | 1,249,763 | 47.7 |
| Fayetteville, AR | 210,908 | 311,121 | 47.5 |
| Boise City, ID | 295,851 | 432,345 | 46.1 |
| Phoenix, AZ | 2,238,480 | 3,251,876 | 45.3 |
| Laredo, TX | 133,239 | 193,117 | 44.9 |
| Provo, UT | 263,590 | 368,536 | 39.8 |
| Atlanta, GA | 2,959,950 | 4,112,198 | 38.9 |
| Raleigh, NC | 855,545 | 1,187,941 | 38.9 |
| Myrtle Beach, SC | 144,053 | 196,629 | 36.5 |
| Wilmington, NC | 171,269 | 233,450 | 36.3 |
| Fort Collins, CO | 186,136 | 251,494 | 35.1 |
| Orlando, FL | 1,224,852 | 1,644,561 | 34.3 |
| Reno, NV | 254,667 | 339,486 | 33.3 |
| Ocala, FL | 194,833 | 258,916 | 32.9 |
| Auburn, AL | 87,146 | 115,092 | 32.1 |
| Fort Myers, FL | 335,113 | 440,888 | 31.6 |
| West Palm Beach, FL | 863,518 | 1,131,184 | 31.0 |
| Bellingham, WA | 127,780 | 166,814 | 30.5 |
| Denver, CO | 1,980,140 | 2,581,506 | 30.4 |
| Colorado Springs, CO | 397,014 | 516,929 | 30.2 |
| Dallas, TX | 4,037,282 | 5,221,801 | 29.3 |

(U.S. Census Bureau)

**Graph A
Fastest-Growing Metropolitan Areas**



**Graph B
Fastest-Growing Metropolitan Areas**



- What is the range of the data?
- What is the bin width of each graph?
- Use the information in the table to create the same graphs on your calculator.
- How can you know if the graph accounts for all 25 metropolitan areas?
- Why are the columns shorter in Graph B?

- f. Describe how each graph illustrates clusters and gaps in the data.
- g. How many of these metropolitan areas grew between 35% and 40%? How can you tell this from each graph?
- h. In what interval of Graph A is the median growth rate? If you use Graph B to answer the question, can your answer be more accurate?
- i. What percentage of these metropolitan areas had population changes less than 35%?

This photo of a housing development in Las Vegas conveys the city's rapid growth.

